

## STATE WEATHER SERVICES.

[Temperature in degrees Fahrenheit; precipitation, including melted snow, in inches and hundredths.]

The following extracts and summaries are republished from reports for December, 1891, of the directors of the various state weather services:

#### ALABAMA.

**Temperature.**—The mean was 2.2 above the normal; maximum, 86, at Daphne, 30th; minimum, 12, at Mountain Home, 26th; greatest monthly range, 67, at Daphne; least monthly range, 31, at Double Springs.

**Precipitation.**—The average was 0.24 above the normal; greatest monthly, 9.03, at Carrollton; least monthly, 2.28, at Bermuda.

**Wind.**—Prevailing direction, northeast.—*P. H. Mell, Observer, Weather Bureau, Auburn, director.*

#### ARIZONA.

The month was unusually cold, many stations reporting the coldest December experienced in 10 to 15 years.

**Temperature.**—Maximum, 77, at Yuma and Tucson, 1st, and at Rancho del Pueblo, 8th; minimum, —18, at Flagstaff, 26th; greatest monthly range, 86, at Flagstaff; least monthly range, 32, at Gila Bend.

**Precipitation.**—Heavy snow was reported from many stations in the northern part of the territory; greatest monthly precipitation, 1.97, at Natural Bridge; least monthly, 0.00, at Buckeye and Navajo Springs.

**Wind.**—Prevailing direction, southwest.—*J. C. Hayden, Observer, Weather Bureau, Tucson, director.*

#### ARKANSAS.

**Temperature.**—The mean was 3.6 above the normal; maximum, 72, at Camden, 5th; minimum, 13, at Mount Nebo, 26th; greatest monthly range, 53, at Hot Springs and Stuttgart; least monthly range, 38, at Newport.

**Precipitation.**—The average was 0.33 above the normal; greatest monthly, 7.50, at Lonoque; least monthly, 1.48, at Keesees Ferry.

**Wind.**—Prevailing direction, south.—*M. F. Locke, Commissioner of Agriculture, Little Rock, director; F. H. Clarke, Observer, Weather Bureau, assistant.*

#### CALIFORNIA.

**Temperature.**—The mean was 3.8 below the normal; maximum, 86, at Winchester, 14th and 16th; minimum, 0 (zero), at Susanville, 25th; greatest monthly range, 68, at Winchester; least monthly range, 29, at Los Gatos.

**Wind.**—Prevailing direction, northwest.—*J. A. Barwick, Observer, Weather Bureau, Sacramento, director.*

#### COLORADO.

**Temperature.**—The mean was 4.0 below the normal; maximum, 72, at Las Animas, 10th; minimum, —26, at Steamboat Springs, 6th, at Climax, 25th, and at San Luis, 26th; greatest monthly range, 82, at Husted; least monthly range, 53, at Georgetown.

**Precipitation.**—About 3 times the usual December amount was recorded; greatest monthly, 9.70, at Cumbres; least monthly, 0.09, at Sedgwick.—*W. S. Miller, Observer, Weather Bureau, Denver, director.*

#### FLORIDA.

**Temperature.**—Maximum, 89, at Archer, 6th; minimum, 30, at Tallahassee, 1st; greatest monthly range, 59, at Archer; least monthly range, 21, at Key West.

**Precipitation.**—Greatest monthly, 4.50, at De Land; least monthly, 0.30, at Homeland.

**Wind.**—Prevailing direction, northeast.—*E. R. Demain, Observer, Weather Bureau, Jacksonville, director.*

#### GEORGIA.

**Temperature.**—The mean was from 1.0 to 2.0 above the normal; maximum, 79, at Thomasville, 3d, at Quitman, 5th, and at Millen, 7th; minimum, 15, at Fort Gaines, 1st; greatest monthly range, 63, at Millen; least monthly range, 39, at Toccoa.

**Precipitation.**—Greatest monthly, 6.65, at Diamond; least monthly, 0.83, at Hepzibah.

**Wind.**—Prevailing direction, east.—*Park Morrill, Observer, Weather Bureau, Atlanta, director.*

#### ILLINOIS.

**Temperature.**—The mean was 8.9 above the normal of the last 16 years; maximum, 70, at Mascoutah, 14th; minimum, —2, at Hennepin, 1st.

**Precipitation.**—The average was 0.57 below the normal; greatest monthly, 5.52, at New Haven; least monthly, 0.87, at Griggsville and Jerseyville.—*John Craig, Observer, Weather Bureau, Springfield, director.*

#### INDIANA.

**Temperature.**—The mean was 6.7 above the normal; maximum, 70, at Logansport, 15th; minimum, 8, at Marion, 26th; greatest monthly range, 56, at La Fayette; least monthly range, 40, at Huntingburgh.

**Precipitation.**—The average was 0.18 below the normal; greatest monthly, 4.57, at De Gonia Springs; least monthly, 1.17, at Hammond.

**Wind.**—Prevailing direction, southeast.—*Prof. H. A. Huston, La Fayette, director; C. F. R. Wappenhans, Observer, Weather Bureau, assistant.*

#### IOWA WEATHER AND CROP SERVICE.

**Temperature.**—The mean was 7.5 above the normal; maximum, 72, at

Glenwood, 31st; minimum, —14, at Larabee, 26th; greatest monthly range, 74, at Glenwood; least monthly range, 49, at Independence.

**Precipitation.**—The average was 0.50 above the normal; greatest monthly, 4.50, at Blakeville; least monthly, 1.21, at Glenwood.

**Wind.**—Prevailing direction, south.—*J. R. Sage, Des Moines, director; G. M. Chappel, Observer, Weather Bureau, assistant.*

#### KANSAS.

The month was one of the warmest on record, and the precipitation was unusually heavy.

**Temperature.**—The mean was 5.2 above the normal; maximum, 81, at Shields, 10th; minimum, —7, at Lakin, 26th; greatest monthly range, 80, at Shields; least monthly range, 51, at Fort Scott and Grenola.

**Precipitation.**—The average was 0.54 above the normal; greatest monthly, 3.49, at Elco; least monthly, 0.01, at McPherson.

**Wind.**—Prevailing direction, south.—*Prof. J. T. Lovewell, Topeka, director; T. B. Jennings, Observer, Weather Bureau, assistant.*

#### KENTUCKY.

**Temperature.**—The mean was 4.0 above the normal; maximum, 70, at Franklin, 12th; minimum, 15, at Harrodsburgh, 19th, and at Pellville, 1st; greatest monthly range, 52, at Harrodsburgh; least monthly range, 42, at Earlington and South Fork.

**Precipitation.**—The average was slightly in excess of the normal; greatest monthly, 5.60, at Canton; least monthly, 2.82, at Lexington.

**Wind.**—Prevailing direction, south.—*Frank Burke, Observer, Weather Bureau, Louisville, director.*

#### LOUISIANA.

**Temperature.**—The mean was 2.0 above the normal; maximum, 80, at Abbeville, 12th; minimum, 16, at Winnborough, 8th, 9th, and 25th; greatest monthly range, 62, at Winnborough; least monthly range, 31, at Port Eads.

**Precipitation.**—The average was 0.43 below the normal; greatest monthly, 8.27, at Minden; least monthly, 1.41, at Delhi.

**Wind.**—Prevailing directions, southeast and northeast.—*George E. Hunt, Observer, Weather Bureau, New Orleans, director.*

#### MARYLAND.

**Temperature.**—Maximum, 68, at Barren Creek Springs, 23d and 24th; minimum, 10, at Darlington, 18th; greatest monthly range, 57, at Barren Creek Springs; least monthly range, 43, at Jewell.

**Precipitation.**—Greatest monthly, 3.92, at Fallston; least monthly, 2.02, at Darlington.

**Wind.**—Prevailing direction, northwest.—*Dr. William B. Clark, Johns Hopkins University, Baltimore, director; Prof. Milton Whitney, Maryland Agricultural College, secretary and treasurer; C. P. Cronk, Observer, Weather Bureau, in charge.*

#### MICHIGAN.

**Temperature.**—Maximum, 61, at Bronson, 15th; minimum, —8, at Crystal Falls, 27th; greatest monthly range, 59, at Crystal Falls; least monthly range, 32, at Charlevoix.

**Precipitation.**—Greatest monthly, 4.63, at Fremont; least monthly, 0.60, at Hayes.

**Wind.**—Prevailing direction, southwest.—*N. B. Conger, Observer, Weather Bureau, Detroit, director.*

#### MINNESOTA.

**Temperature.**—The mean was above the normal; maximum, 57, at Kinbrae, 12th; minimum, —27, at Saint Vincent, 28th; greatest monthly range, 78, at Saint Vincent; least monthly range, 55, at Minneapolis.

**Precipitation.**—The average was above the normal; greatest monthly, 4.78, at Farmington; least monthly, 0.14, at Crookston.

**Wind.**—Prevailing direction, south.—*J. H. Harmon, Observer, Weather Bureau, Minneapolis, director.*

#### MISSISSIPPI.

**Temperature.**—The mean was 3.6 above the normal; maximum, 85, at Brookhaven, 14th; minimum, 18, at Vaiden, 1st; greatest monthly range, 65, at Brookhaven; least monthly range, 34, at Bay Saint Louis.

**Precipitation.**—The average was 0.25 below the normal; greatest monthly, 8.00, at Bay Saint Louis; least monthly, 1.71, at Water Valley.

**Wind.**—Prevailing direction, southeast.—*R. B. Fulton, Observer, Weather Bureau, University, director.*

#### MISSOURI.

**Temperature.**—The mean was 8.3 above the normal; maximum, 76, at South McAlester, Ind. T., 6th and 11th; minimum, —1, at Adrian, 25th, and at Pickering, 7th; greatest monthly range, 70, at Adrian; least monthly range, 44, at Herrmann and Cairo, Ill.

**Precipitation.**—The average was 0.46 above the normal; greatest monthly, 4.50, at Conception; least monthly, 0.72, at Harris.

**Wind.**—Prevailing direction, south.—*Levi Chubbuck, Secretary of State Board of Agriculture, Columbia, director; J. H. Smith, Observer, Weather Bureau, assistant.*

### MONTANA.

**Temperature.**—The mean was considerably above the normal; maximum, 63, at Fort Custer, 16th; minimum, —22, at Virginia City, 25th; greatest monthly range, 70, at Fort Custer; least monthly range, 58, at Martinsdale.

**Precipitation.**—The average was about 0.50 below the normal; greatest monthly, 1.75, at Martinsdale; least monthly, trace, at Livingston.

**Wind.**—Prevailing direction, west.—*E. J. Glass, Observer, Weather Bureau, Helena, director.*

### NEBRASKA.

**Temperature.**—Maximum, 80, at Superior, 12th; minimum, —22, at Pawlet, 25th.

**Precipitation.**—Greatest monthly, 2.10, at Norfolk; least monthly, 0.27, at York.

**Wind.**—Prevailing direction, northwest.—*Prof. Goodwin D. Sweeney, Crete, director; G. A. Loveland, Observer, Weather Bureau, assistant.*

### NEVADA.

**Temperature.**—The mean was 2.0 below the normal; maximum, 66, at Wabuska, 1st; minimum, —33, at Elko, 25th.

**Precipitation.**—The average was 0.18 below the normal; greatest monthly, .846, at Genoa; least monthly, 0.20, at Downeyville.—*Prof. Charles W. Friend, Carson City, director; F. A. Carpenter, Observer, Weather Bureau, assistant.*

### NEW ENGLAND METEOROLOGICAL SOCIETY.

**Temperature.**—The mean was 8.2 above the normal; maximum, 67, at Framingham, 4th, and at Gilbertville, 24th; minimum, —8, at Farmington, 31st, and at Chelsea, 17th; greatest monthly range, 63, at Farmington; least monthly range, 39, at Provincetown.

**Precipitation.**—The average was 0.27 above the normal; greatest monthly, 7.60, at Savcy; least monthly, 1.95, at Cornwall.

**Wind.**—Prevailing direction, northwest.—*Prof. William H. Niles, Boston, Mass., president; Prof. Winslow Upton, Providence, R. I., secretary; J. Warren Smith, Observer, Weather Bureau, assistant.*

### NEW JERSEY.

The month was notable for an almost entire absence of snow, only trace being reported at a few stations.

**Temperature.**—The mean was 8.4 above the normal; maximum, 78, at Tenafly, 23d; minimum, 9, at Hanover and Somerville, 18th; greatest monthly range, 66, at Tenafly; least monthly range, 41, at Atlantic City.

**Precipitation.**—The average was 0.63 above the normal; greatest monthly, 5.32, at Dover, Del.; least monthly, 2.25, at Cape May C. H.

**Wind.**—Prevailing direction, southwest.—*E. W. McGann, Observer, Weather Bureau, New Brunswick, director.*

### NEW MEXICO.

The month was unusually cold.

**Temperature.**—Maximum, 73, at La Luz, 1st; minimum, —23, at Dulce, 26th; greatest monthly range, 83, at Folsom; least monthly range, 50, at Fort Stanton.

**Precipitation.**—Greatest monthly, 4.97, at Chama; least monthly, 0.02, at Albuquerque.

**Wind.**—Prevailing direction, northwest.—*H. B. Hersey, Observer, Weather Bureau, Santa Fé, director.*

### NEW YORK.

The month was remarkable for frequent warm spells and small amount of snowfall.

**Temperature.**—The mean was 8.3 below the normal; maximum, 68, at Brentwood and New York, 23d; minimum, —9, at Lyon Mountain, 17th; greatest monthly range, 65, at Malone; least monthly range, 41, at Fort Columbus.

**Precipitation.**—The average was 0.91 above the normal; greatest monthly, 6.77, at Utica; least monthly, 1.45, at Watervliet Arsenal.

**Wind.**—Prevailing direction, southwest.—*Prof. E. A. Fuertes, Dean of the College of Civil Engineering, Cornell University, Ithaca, director; R. M. Hardinge, Observer, Weather Bureau, assistant.*

### NORTH CAROLINA.

**Temperature.**—The mean was 2.5 above the normal; maximum, 76, at Willeyton, 26th; minimum, 3, at Linville, 29th; greatest monthly range, 64, at Willeyton; least monthly range, 44, at Kitty Hawk.

**Precipitation.**—The average was 1.81 below the normal; greatest monthly, 7.87, at Linville; least monthly, 0.53, at Littleton.

**Wind.**—Prevailing direction, southwest.—*Dr. Herbert B. Battle, Raleigh, director; C. F. von Herrmann, Observer, Weather Bureau, assistant.*

### NORTH DAKOTA.

**Temperature.**—The mean was 5.4 above the normal; maximum, 47, at Moorhead, Minn., 9th, and at Fort Buford, 8th; minimum, —41, at Willow City, 26th; greatest monthly range, 83, at Willow City; least monthly range, 61, at Wild Rice.

**Precipitation.**—The average was 0.38 above the normal; greatest monthly, 3.32, at Grand Rapids; least monthly, 0.14, at Fort Buford.

**Wind.**—Prevailing direction, northwest.—*W. H. Fallon, Observer, Weather Bureau, Bismarck, director.*

### OHIO.

**Temperature.**—The mean was 6.0 below the normal; maximum, 66, at Portsmouth, 3d; minimum, 9, at Wauseon and Marion, 18th; greatest monthly range, 52, at Hanging Rock and McConnellsburg; least monthly range, 40, at Columbus.

**Precipitation.**—The average was 0.15 below the normal; greatest monthly, 3.40, at West Milton; least monthly, 1.49, at Toledo.

**Wind.**—Prevailing direction, southwest.—*Prof. B. F. Thomas, Columbus, director; C. M. Strong, Observer, Weather Bureau, secretary and assistant.*

### OKLAHOMA.

**Temperature.**—Maximum, 73, at Fort Supply, 1st; minimum, 8, at Fort Supply, 25th.

**Precipitation.**—Greatest monthly, 2.67, at Guthrie; least monthly, 0.69, at Purcell.

**Wind.**—Prevailing direction, south.—*Louis Dorman, Observer, Weather Bureau, Oklahoma City, director.*

### OREGON.

Heavy rain suspended all agricultural operations.

**Temperature.**—The mean was 0.4 below the normal; maximum, 66, at Roseburgh, 15th; minimum, —11, at Lakeview, 24th; greatest monthly range, 66, at Lakeview; least monthly range, 26, at Hood River.

**Precipitation.**—The average was 2.87 above the normal; greatest monthly, 21.50, at Cascade Locks; least monthly, 0.98, at Hardman.

**Wind.**—Prevailing direction, south.—*H. E. Hayes, Master State Grange, Portland, director; B. S. Pague, Observer, Weather Bureau, asst.*

### PENNSYLVANIA.

**Temperature.**—The mean was 8.0 above the normal; maximum, 68, at Meadville, 5th; minimum, —3, at Somerset, 18th; greatest monthly range, 66, at Somerset; least monthly range, 38, at Kane.

**Precipitation.**—The average was 1.12 above the normal; greatest monthly, 6.53, at Drifton; least monthly, 2.00, at Blue Knob.

**Wind.**—Prevailing direction, southwest.—*Under direction of the Franklin Institute, Philadelphia; H. L. Ball, Observer, Weather Bureau, assistant.*

### SOUTH DAKOTA.

**Temperature.**—The mean was 7.3 above the normal; maximum, 63, at Mitchell, 1st; minimum, —25, at Webster, 26th; greatest monthly range, 78, at Flandreau; least monthly range, 52, at Onida.

**Precipitation.**—The average was 0.50 above the normal; greatest monthly, 3.30, at Webster; least monthly, 0.05, at Rapid City.

**Wind.**—Prevailing direction, northwest.—*S. W. Glenn, Observer, Weather Bureau, Huron, director.*

### TENNESSEE WEATHER CROP SERVICE.

**Temperature.**—The mean was 3.0 above the normal; maximum, 72, at Savannah, 14th; minimum, 14, at Springdale and Riddleton, 1st, and at Rugby, 8th; greatest monthly range, 55, at Riddleton; least monthly range, 30, at Bethel Springs.

**Precipitation.**—The average was 1.03 above the normal; greatest monthly, 7.32, at Covington; least monthly, 2.29, at Carthage.—*J. B. Marbury, Observer, Weather Bureau, Nashville, director.*

### TEXAS.

**Temperature.**—The mean was 2.9 above the normal; maximum, 90, at Sugar Land, 6th; minimum, 8, at El Paso, 8th; greatest monthly range, 66, at Hartley and Sugar Land; least monthly range, 36, at Galveston.

**Precipitation.**—The average was 0.51 above the normal; greatest monthly, 10.31, at Austin; least monthly, 0.25, at San Antonio.

**Wind.**—Prevailing direction, southeast.—*D. D. Bryan, Galveston, director; I. M. Cline, Observer, Weather Bureau, assistant.*

### UTAH.

**Temperature.**—The month was colder than the average; maximum, 71, at Saint George, 1st; minimum, —19, at Nephi, 25th; greatest monthly range, 69, at Cisco; least monthly range, 41, at Snowville.

**Precipitation.**—Greatest monthly, 2.90, at Grouse Creek; least monthly, 0.15, at Green River.

**Wind.**—Prevailing direction, northwest.—*G. N. Salisbury, Observer, Weather Bureau, Salt Lake City, director.*

### VIRGINIA.

**Temperature.**—Maximum, 76, at Stanardsville, 10th; minimum, 6, at Lexington, 1st; greatest monthly range, 68, at Richmond; least monthly range, 45, at Bedford City.

**Precipitation.**—Greatest monthly, 5.03, at Avon; least monthly, 1.19, at Cape Charles.

**Wind.**—Prevailing directions, south and southwest.—*Dr. E. A. Craighill, Lynchburg, director; J. N. Ryker, Observer, Weather Bureau, assistant.*

### WASHINGTON.

**Temperature.**—Maximum, 61, at East Sound, 16th; minimum, —6, at Baker City, Oregon, 25th; greatest monthly range, 46, at Dayton; least monthly range, 23, at Tatoosh Island and Aberdeen.

**Precipitation.**—The average was 2.14 above the normal; greatest monthly, 23.91, at Neah Bay; least monthly, 1.99, at Dayton.

**Wind.**—Prevailing direction, south.—*E. B. Olney, Observer, Weather Bureau, Olympia, director.*

## WEST VIRGINIA.

**Temperature.**—Maximum, 75, at Elizabeth, 3d; minimum, 6, at Pleasant Hill, 18th; greatest monthly range, 65, at Point Pleasant; least monthly range, 43, at Alderson.

**Precipitation.**—Greatest monthly, 5.02, at Kingwood; least monthly, 1.55, at Moorefield.

**Wind.**—Prevailing direction, southwest.—*W. W. Dent, Observer, Weather Bureau, Parkersburgh, director.*

## WISCONSIN.

**Temperature.**—The mean was 7.0 above the normal; maximum, 70, at La Crosse, 3d; minimum, —23, at Barron, 27th; greatest monthly range, 72, at La Crosse and Osceola Mills; least monthly range, 39, at Beaver Dam.

## METEOROLOGICAL TABLES.

Meteorological record of Army post surgeons, voluntary, and other co-operating observers, December, 1891.

Stations.	Temperature. (Fahrenheit.)			Prep'n.	Stations.	Temperature. (Fahrenheit.)			Prep'n.
	Max.	Min.	Mean.			Max.	Min.	Mean.	
	Ins.	Ins.	Ins.			Ins.	Ins.	Ins.	
Alabama.	o	o	o	Ins.	Arizona—Cont'd.	o	o	o	Ins.
Bermuda <sup>†</sup> .	74	23	51.4	2.31	Tucson (2) <sup>†</sup> .	72	22	47.2	o
Brewton <sup>†</sup> .	77	23	51.6	5.25	Walnut Grove	.....	.....	.....	o
Carrollton	71	24	40.4	9.03	Walnut Ranch <sup>†</sup> .	.....	.....	.....	o
Chepultepec	62	24	40.0	4.80	Whipple Barracks	62	—2	31.4	1.19
Childsburgh <sup>†</sup> .	.....	.....	4.93	Willcox <sup>†</sup> .	64	20	42.7	0.85	
Citronelle <sup>†</sup> .	72	32	54.6	5.19	Yuma <sup>†</sup> .	78	28	52.8	.....
Claiborne Landing	.....	.....	3.45	Arkansas	.....	.....	.....	.....	
Cordova <sup>†</sup> .	.....	.....	6.71	Arkadelphia <sup>†</sup> .	.....	.....	7.41	.....	
Daphne	86	29	60.3	5.92	Arkansas City <sup>†</sup> .	.....	.....	6.98	.....
Decatur (1) <sup>†</sup> .	52	21	39.3	3.38	Black Rock <sup>†</sup> .	70	18	40.4	2.96
Double Springs <sup>†</sup> .	52	21	39.3	3.38	Brinkley <sup>†</sup> .	69	25	50.1	5.07
Florence (1) <sup>†</sup> .	.....	.....	4.50	Cundem <sup>†</sup> .	72	23	50.1	3.86	
Gadsden <sup>†</sup> .	.....	.....	4.64	Conway <sup>†</sup> .	65	23	46.9	4.26	
Greensborough	72	28	52.0	5.03	Corner Stone <sup>†</sup> .	67	23	47.8	4.47
Jemison <sup>†</sup> .	78	31	53.3	3.61	Dallas <sup>†</sup> .	67	19	46.9	4.69
Livingston (1) <sup>†</sup> .	73	22	50.4	5.46	Dardanelle <sup>†</sup> .	.....	.....	3.44	.....
Lynn <sup>†</sup> .	.....	.....	7.64	Devall Bluff <sup>†</sup> .	69	19	47.0	3.31	
Mountain Home	68 d	12 d	45.8d	5.77	El Dorado <sup>†</sup> .	68	19	47.8	6.08
Mt. Vernon B'ks	81	25	55.2	6.15	Fayetteville <sup>†</sup> .	64	14	43.6	2.11
Newburgh	68	21	49.2	4.34	Forrest City <sup>†</sup> .	70	26	50.8	5.56
Orrville <sup>†</sup> .	75	24	50.3	5.36	Fulton <sup>†</sup> .	.....	.....	3.92	.....
Oxanna <sup>†</sup> .	69	25	48.9	3.78	Gaines Landing <sup>†</sup> .	.....	.....	6.36	.....
Pushmataha <sup>†</sup> .	73	24	52.9	4.25	Harrison <sup>†</sup> .	65	15	43.1	2.92
Selma (1) <sup>†</sup> .	.....	.....	5.62	Helena (1) <sup>†</sup> .	.....	.....	7.46	.....	
Scottsburgh	66	19	44.0	2.84	Helena (2) <sup>†</sup> .	68	24	47.8	6.66
Sturdevant	.....	.....	3.33	Hope <sup>†</sup> .	71	22	49.1	6.35	
Talladega <sup>†</sup> .	.....	.....	4.94	Holt Springs	69	16	46.0	6.75	
Tallasee Falls <sup>†</sup> .	.....	.....	5.48	Lead Hill <sup>†</sup> .	67	16	44.4	1.48	
Tuscaloosa <sup>†</sup> .	.....	.....	4.88	Lonoke <sup>†</sup> .	66	22	50.9	7.50	
Tuscumbia (1) <sup>†</sup> .	67	22	47.8	Monticello <sup>†</sup> .	21	.....	4.62	.....	
Union Springs <sup>†</sup> .	74	25	48.2	4.78	Mount Nebo <sup>†</sup> .	59	13	42.7	3.20
Valley Head <sup>†</sup> .	66	18	44.6	5.77	Newport (2) <sup>†</sup> .	66	28	46.6	3.23
Wiggins*	77	23	52.7	6.65	Osceola <sup>†</sup> .	69	25	46.3	5.58
Alaska.	.....	.....	.....	Ozone <sup>†</sup> .	57	15	42.8	4.98	
Juneau.	39	1	27.8	7.03	Pine Bluff <sup>†</sup> .	67	22	46.6	4.85
Arizona.	.....	.....	.....	Rogers	64	16	42.4	1.99	
Ariz. Can. Co. Dam <sup>†</sup> .	75	19	43.8	0.23	Stuttgart <sup>†</sup> .	70	17	47.8	5.05
Benson*	66	23	47.7	0.35	Winslow <sup>†</sup> .	60	16	46.1	3.39
Bisbee	70	15	40.9	0.48	California.	.....	.....	.....	.....
Buckeye <sup>†</sup> .	.....	.....	0.00	Alcalde <sup>†</sup> .	70	25	47.9	4.00	
Calabasas <sup>†</sup> .	68	17	40.5	0.03	Alcatraz Island	64	36	45.8	7.31
Casa Grande <sup>†</sup> .	80	20	46.2	0.17	Almaden <sup>†</sup> .	64	30	40.8	5.45
Dos Cabezos <sup>†</sup> .	.....	.....	0.76	Alvarado <sup>†</sup> .	70	28	51.5	5.62	
Dragoon Summit <sup>†</sup> .	63	12	41.1	1.	Angel Island	70	32	48.8	5.48
Dudleyville	70	14	44.6	0.58	Antioch <sup>†</sup> .	70	29	46.8	4.43
Eagle Pass <sup>†</sup> .	.....	.....	0.75	Aptos <sup>†</sup> .	62	22	47.8	7.64	
Farleys Camp	62	18	37.7	0.45	Ballast Point L. H.	.....	.....	0.70	.....
Flagstaff	68	18	28.8	3.00	Beaumont <sup>†</sup> .	70	24	47.5	2.43
Florence <sup>†</sup> .	75	17	44.5	0.32	Belmont <sup>†</sup> .	68	25	45.6	0.62
Fort Apache	63	—14	27.0	0.65	Benicia Barracks	64	29	44.5	1.18
Fort Bowie	67	15	40.9	1.26	Berkeley	64	29	44.5	1.12
Fort Grant	71	15	40.6	1.18	Bishop Creek	67	6	33.7	3.52
Fort Huachuca	69	7	38.2	0.14	Brighton <sup>†</sup> .	68	28	45.5	3.41
Fort Mohave <sup>†</sup> .	77	25	45.7	T.	Castroville <sup>†</sup> .	67	27	51.4	4.44
Gila Bend (1) <sup>†</sup> .	66	30	50.0	0.25	Chico <sup>†</sup> .	68	20	43.9	4.39
Gila Bend (2) <sup>†</sup> .	77	28	53.1	0.07	Colfax <sup>†</sup> .	60	21	40.2	11.04
Grand Central Mill	.....	.....	1.30	Colton <sup>†</sup> .	80	25	51.3	0.87	
Holbrook <sup>†</sup> .	62	—7	28.3	0.89	Crescent City L. H.	.....	.....	1.81	.....
Mount Huachuca <sup>†</sup> .	66	10	39.7	0.40	Delano <sup>†</sup> .	68	29	45.3	1.66
Natural Bridge	.....	.....	1.97	Delta <sup>†</sup> .	59	25	39.2	2.12	
Navajo Springs <sup>†</sup> .	.....	.....	0.00	Dunsmuir <sup>†</sup> .	56	15	38.9	9.65	
New River	73	21	47.2	0.32	East Brother L. H.	.....	.....	2.40	.....
Oracle <sup>†</sup> .	66	16	39.8	T.	Edgwood <sup>†</sup> .	47	16	32.0	2.80
Oro....	.....	.....	1.30	Elmira <sup>†</sup> .	65	28	46.5	4.92	
Payson	.....	.....	1.81	El Verano <sup>†</sup> .	67	27	46.5	7.67	
Peoria	75	15	44.4	0.29	Emigrant Gap <sup>†</sup> .	50	10	29.2	12.90
Phoenix (1)	77	13	49.6	0.13	Esparto <sup>†</sup> .	68	30	47.2	4.32
Phoenix (2) <sup>†</sup> .	70	15	47.0	0.14	Fernando <sup>†</sup> .	71	30	50.6	1.03
Red Rock <sup>†</sup> .	74	30	51.8	0.23	Florence <sup>†</sup> .	73	27	51.9	1.95
Reynert	73	19	49.1	0.03	Galt <sup>†</sup> .	65	27	45.2	4.32
Saint Johnst <sup>†</sup> .	.....	.....	0.42	Girard <sup>†</sup> .	62	28	47.6	5.80	
San Carlos	74	11	39.1	1.44	Glen Ellen <sup>†</sup> .	70	24	47.7	9.94
Signal	71	18	44.3	0.66	Gladys <sup>†</sup> .	61	20	39.1	3.50
Strawberry	.....	.....	1.22	Gilroy <sup>†</sup> .	65	27	45.2	6.00	
Tempe	76	14	48.4	0.19	Girard <sup>†</sup> .	62	28	47.6	5.80
Teviston	.....	.....	0.05	Glen Ellen <sup>†</sup> .	70	24	47.7	9.94	
Texas Hill <sup>†</sup> .	70	33	48.2	.....	Gladys <sup>†</sup> .	63	31	45.1	6.00
Tombstone <sup>†</sup> .	70	14	44.2	0.11	Haywards <sup>†</sup> .	63	31	45.1	6.00
Tucson (1) <sup>†</sup> .	72	15	44.8	0.28	Haywards <sup>†</sup> .	63	31	45.1	6.00

**Precipitation.**—The average was 1.53 above the normal; greatest monthly, 5.75, at Lincoln; least monthly, 1.42, at Delavan (near).

**Wind.**—Prevailing direction, southwest.—*W. L. Moore, Observer, Weather Bureau, Milwaukee, director.*

## WYOMING.

**Temperature.**—Maximum, 67, at Casper, 10th; minimum, —25, at Lander, 25th; greatest monthly range, 81, at Lander and Fort Fetterman; least monthly range, 55, at Fort Laramie and Sundance.

**Precipitation.**—Greatest monthly, 3.24, at Evanston; least monthly, 0.00, at Wheatland.

**Wind.**—Prevailing direction, west.—*E. M. Ravenscraft, Observer, Weather Bureau, Cheyenne, director.*

Stations.	Temperature. (Fahrenheit.)			Prep'n.	Stations.	Temperature. (Fahrenheit.)			Prep'n.	Stations.	Temperature. (Fahrenheit.)		
	Max.	Min.	Mean.			Max.	Min.	Mean.			Max.	Min.	
	Ins.	Ins.	Ins.			Ins.	Ins.	Ins.			Ins.	Ins.	
California—Cont'd.	o	o	o	Ins.	Tucson (2) <sup>†</sup> .	72	22	47.2	o	Arizona—Cont'd.	Cont'd.	o	o
Huron <sup>†</sup> .	75	26	44.5	1.09	Walnut Grove	.....	.....	.....	o	Calaveras	Cont'd.	o	o
Ione <sup>†</sup> .	63	20	43.9	4.63	Walnut Ranch <sup>†</sup> .	.....	.....	.....	o	Alameda	Cont'd.	o	o
Keene <sup>†</sup> .	62	23	39.7	6.37	Whipple Barracks	62	—2	31.4	1.19	Alameda	Cont'd.	o	o
Jolon <sup>†</sup> .	68	28	44.6	3.47	Willcox <sup>†</sup> .	64	20	42.7	0.85	Alameda	Cont'd.	o	o
Laurel <sup>†</sup> .	67	25	45.0	8.44	Yuma <sup>†</sup> .	78	28	48.0	1.93	Alameda	Cont'd.	o	o
Lemoore <sup>†</sup> .	73	24	44.0	4.93	Arkadelphia <sup>†</sup> .	.....	.....	.....	o	Alameda	Cont'd.	o	o
Lime Point L. H.	.....	.....	6.38	.....	Arkadelphia <sup>†</sup> .	.....	.....	.....	o	Alameda	Cont'd.	o	o
Livermore <sup>†</sup> .	62	28	47.5	4.42	Arkadelphia <sup>†</sup> .	.....	.....	.....	o	Alameda	Cont'd.	o	o
Livingston <sup>†</sup> .	68	28	46.7	3.74	Arkadelphia <sup>†</sup> .	.....	.....	.....	o	Alameda	Cont'd.	o	o
Long Beach <sup>†</sup> .	74	26	49.5	.....	Arkadelphia <sup>†</sup> .	.....	.....	.....	o	Alameda	Cont'd.	o	o
Los Banos <sup>†</sup> .	62	26	45.6	3.05	Arkadelphia <sup>†</sup> .	.....	.....	.....	o	Alameda	Cont'd.	o	o
Los Gatos (1) <sup>†</sup> .	61	26	46.8	6.97	Arkadelphia <sup>†</sup> .	.....	.....	.....	o	Alameda	Cont'd.	o	o
Maineader Tank <sup>†</sup> .	79	25	48.0	T.	Arkadelphia <sup>†</sup> .	.....	.....	.....	o	Alameda	Cont'd.	o	o
Mare Island L. H.	.....	.....	4.93	.....	Arkadelphia <sup>†</sup> .	.....	.....	.....	o	Alameda	Cont'd.	o	o
Marysville (1) <sup>†</sup> .	79	25	47.4	3.77	Arkadelphia <sup>†</sup> .	.....							